# SPECIAL SERVICE MAIL ELECTRONIC UPLOADS WITH AUTOMATIC RETURN OF LEGAL ELECTRONIC PROOF OF INDUCTION / ACCEPTANCE

# Field of the Invention

[001] The invention relates generally to the field of mailing and, more particularly, to the field of inducting mail into a mail stream.

## **Background of the Invention**

[002] The United States Postal Service (hereinafter "USPS") currently handles large volumes of normal mail, i.e., first class mail, standard mail and third class mail. However, when it comes to specialty mail, i.e., priority mail, certified mail and registered mail, the USPS uses gummed service stickers and forms to indicate and process the specialty mail. The use of gummed service stickers and completion of forms by hand is unnecessary, time-consuming, error prone and raises the expense for those receiving these services. Furthermore, the use of some services, i.e., certified mail, registered mail and the obtaining of a certificate of mailing, requires the mailer to physically deliver the mail piece to a postal clerk at the counter of the post office.

[003] The post office is not open twenty-four hours a day, seven days a week, and legal notice under many contracts is obtained by the delivery of a mail piece to the post office. Thus, mailers are unable to obtain proof of mailing every hour of the day.

#### **SUMMARY OF THE INVENTION**

[004] The present invention overcomes the disadvantages of the prior art by providing an inexpensive and time-saving method for reducing the use of gummed service stickers and the completion by hand of special forms and cards for specialty mail and certificates of mailing. The invention permits a mailer to obtain legal proof of induction/acceptance of mail pieces without requiring the mailer to bring the mail piece to the post office. This invention also reduces the number of trips that a mailer has to make to the post office, and the time that a mailer has to wait in line at the post office counter. The foregoing may be accomplished by having the post office notify the mailer's postage meter of the induction/acceptance of the mail piece when the post office scans the mail piece at the beginning of the delivery process.

## **Brief Description of the Drawing**

[005] Fig. 1 is a block diagram showing the overall flow of the method and system for providing proof of mailing a mail piece utilizing a postage meter or personal computer postage meter;

[006] Fig. 2A is a flow chart describing an information gathering procedure at a postage meter for obtaining proof of mailing from a postage meter that uses manual recipient address entry;

[007] Fig. 2B is a flow chart describing an information gathering procedure at the postage meter for obtaining proof of mailing;

[008] Fig. 3 is a flow chart describing the proof of mailing process with regard to a Postage By Phone® data center;

[008] Fig. 4 is a drawing of mail piece 11 of Fig. 1 in greater detail:

[009] Fig. 5A is a drawing of a certificate of induction indicating that a scanner of the post office has read unique identification code 15 on mail piece 11 indicating that mail piece 11 has entered the delivery process; and

**[010]** Fig. 5B is a drawing of a certificate of non-induction indicating that a scanner of the post office has not read unique identification code 15 on mail piece 11 indicating that mail piece 11 has not entered the delivery process.

# **Detailed Description**

[011] Fig. 1 shows a mailer 10 who is going to mail a mail piece 11. The mailer 10 uses a postage meter 12 to pay the postage for mailing mail piece 11. Meter 12 may be an electronic meter manufactured by Pitney Bowes Inc. of 1 Elmcroft Road, Stamford, CT, or a personal computer postage meter system with a secure data storage device manufactured by Pitney Bowes Inc. of 1 Elmcroft Road, Stamford, CT. An optical character recognition scanner 27 reads the recipient's address on mail piece 11, or the

user of meter 12 enters the recipient's address into meter 12. Mail piece 11 contains a unique identification code 15, i.e., the meter serial number and the date and time that a postal indicia was affixed to mail piece 11, that is described in the description of Fig. 4.

[012] Meter 12 places adequate postage on mail piece 11. The mailer 10 submits the mail piece 11 to a USPS mail pick up spot 16. A hand-held scanner 17 may read unique identification code 15 at mail pick up spot 16, or a scanner 18 may read identification code 15 at entry USPS facility 19. Facility 19 will process mail piece 11 and deliver it to the recipient's destination 20.

[013] Meter 12 is coupled to a data processing center such as Pitney Bowes Postage By Phone data center 21. Data center 21 contains a message sending device 22, i.e., voice response unit, telephone, facsimile, e-mail, etc., a certificate of induction process/database 23, and a meter link 24. Meter 12 is coupled to messaging receiving device 25, i.e., telephone, facsimile, e-mail. Data center 21 is also coupled to USPS data center 26.

[014] A plurality of meters 12 may upload the unique identification code 15 that is placed on a specific mail piece 11 to meter link 24. Meter link 24 transfers the identification codes to certificate of induction process/ database 23. From time to time, process/database 23 is used to produce a batch file from identification codes 15 that it has received from a plurality of meters 12. The batch file is transmitted to USPS data center 26.

[015] After scanners 17 or 18 read identification code 15, identification code 15 is processed and transmitted to USPS data center 26. Data center 26 stores the identification codes 15 that it receives from scanners 17 and/or 18, and performs a matching process with the identification codes 15 that it receives from certificate of induction process/database 23. A batch file of those matches is produced by data center 26 and is sent to process/database 23. Then, each matched identification code 15 produces a digitally signed message that indicates the USPS has noted the entry of the mail piece 11 that has identification code 15 affixed thereto. The digitally signed message is sent to meter 12 where it is stored in the meter's non-volatile memory awaiting mailer's 10 command to print a certificate of induction 30, which will be described in the description of Fig. 5A, on a paper tape. Meter 12 may also print on a paper tape (not shown) a certificate of non-induction 60 which will be described in the description of Fig. 5B. Process/data base 23 is coupled to messaging sending device 22 to provide and store a message announcing the arrival of a certificate of induction 30 being available at meter 12. The message may also be sent to the user of meter 12 via messaging device 25, i.e., e-mail, facsimile, telephone, etc.

[016] Fig. 2A is a flow chart describing an information gathering procedure at a postage meter for obtaining proof of mailing, i.e., certificate of induction, from a postage meter that uses manual recipient address entry. The procedure begins in block 100 where meter 12 detects the presence of mail piece 11. Then the procedure goes to decision block 102. In block 102, the mailer is asked whether or not the mailer wants the certificate of induction option, i.e., proof of mailing. If the mailer decides that the

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5

certificate of induction option is not desired, the procedure goes to block 104 where a normal postal indicia indicating payment of postage is printed on mail piece 11. If the mailer decides that the certificate of induction option is desired, the procedure goes to block 106 where the mailer is asked to select the class of mail, i.e., first class, priority mail, express mail, etc. After the mailer selects the class of mail, the procedure goes to block 108 where the mailer selects the service level, i.e., certified mail, delivery confirmation, insured mail, registered mail, signature confirmation, etc. After the mailer enters the service level, the procedure goes to block 110 where the mailer is asked to enter the recipient's name and address and the mailer's reference number, i.e., docket number. After the mailer enters the information in block 110, the procedure goes to decision block 112.

[017] Decision block 112 asks the mailer if mail piece 11 is going to be mailed to a United States destination address. If block 112 determines that mail piece 11 is not going to be mailed to a United States destination address, the procedure goes to block 116 where the mailer is asked to enter the country code for the destination address of mail piece 11. If block 112 determines that mail piece 11 is going to be mailed to a United States destination address or the mailer has entered the country code in block 116, the procedure goes to block 114. At block 114, postage meter 12 validates all of the above entries provided by the mailer.

[018] After all of the entries are validated, the procedure goes to block 118, where meter 12 computes the postage rates and service fees and stores them in a buffer of

meter 12. Now the procedure goes to block 120 to create and store a header for the record regarding mail piece 11 in a buffer of meter 12. Then the procedure goes to block 122 and causes meter 12 to print a normal postal indicia and identification code 15 on mail piece 11. Now the procedure goes to decision block 124. Block 124 determines whether or not there are any more mail pieces. If block 124 determines there are additional mail pieces, the procedure goes back to the input of block 100. If block 124 determines there are no additional mail pieces, the procedure goes to block 126. Block 126 sends the files to data center 21, and then the procedure goes back to block 100.

[019] Fig. 2B is a flow chart describing an information gathering procedure at the postage meter for obtaining proof of mailing. The procedure begins in block 200 where meter 12 and optical character recognition device 27 (Fig. 1) detect the presence of mail piece 11. Then the procedure goes to decision block 202. In block 202, the mailer is asked whether or not the mailer wants the certificate of induction option, i.e., proof of mailing. If the mailer decides that the certificate of induction option is not desired, the procedure goes to block 204 where a normal postal indicia indicating payment of postage is printed on mail piece 11. If the mailer decides that the certificate of induction option is desired, the procedure goes to block 206 where the mailer is asked to select the class of mail, i.e., first class, priority mail, etc. After the mailer selects the class of mail, the procedure goes to block 208 where the mailer selects the service level, i.e., certified mail, delivery confirmation, insured mail, registered mail, signature confirmation, etc. After the mailer enters the service level, the procedure goes to block

211 where meter 12 obtains recipient's name and address and identification information by scanning the face of mail piece 11. Then the procedure goes to decision block 212.

[020] Decision block 212 asks the meter if mail piece 11 is going to be mailed to a United States destination address. If block 212 determines that mail piece 11 is not going to be mailed to a United States destination address, the procedure goes to block 216 where the device 27 provides the information to enter the country code for the destination address of mail piece 11. If block 212 determines that mail piece 11 is going to be mailed to a United States destination address or the device 27 has provided the information to enter the country code in block 216, the procedure goes to block 214. At block 214, postage meter 12 validates all of the above entries provided by the device 27 and meter 12.

[021] After all of the entries are validated, the procedure goes to block 218, where meter 12 computes the postage rates and service fees and stores them in a buffer of meter 12. Now the procedure goes to block 220 to create and store a header for the record regarding mail piece 11 in a buffer of meter 12. Then the procedure goes to block 222 and causes meter 12 to print a normal postal indicia and unique identification code 15 on mail piece 11. Now the procedure goes to decision block 224. Block 224 determines whether or not there are any more mail pieces. If block 224 determines there are additional mail pieces, the procedure goes back to the input of block 200. If block 224 determines there are no additional mail pieces, the procedure goes to block

226. Block 226 sends the files to data center 21, and then the procedure goes back to block 200.

[022] Fig. 3 is a flow chart describing the proof of mailing process with regard to Postage By Phone® data center 21. The process begins in block 300. In block 300. Postage By Phone Data Center 21 sorts files by entry zip code. Then, in block 302, Postage By Phone Data Center 21 creates a batch file with header. Now, in block 304, Postage By Phone Data Center 21 sends the batch file to the USPS. At this point, in block 400, the post office adds files to "Waiting For Entry". Now, in block 410, the post office creates a new batch file. Then, in block 420, the post office sorts the file by meter manufacture. Now, in block 430, the post office sends the batch files to data center 21. Then, in block 306, Postage By Phone Data Center 21 receives a certificate of induction update batch file from the post office. Now, in block 308, Postage By Phone Data Center 21 sorts the file by meter number and sends certificate of induction updates to both the mailer and the meter. Then, in block 310, meter 12 stores messages and sets the message indicator of messaging device 25 indicating that a message is present. Now in block 312, meter 12 prints certificate of induction 30 and resets the message indicator to off.

[023] Fig. 4 is a drawing of mail piece 11 of Fig. 1 in greater detail. Mail piece 11 has a recipient address field 35, a sender address field 36 that contains sender's name and address, and a field 37 that was printed by meter 12. Address field 35 contains recipient name and address 38, a postnet bar code 39, and unique number 15 in

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9

human-readable form, i.e., the serial number of meter 12 and unique number 44, i.e., the date and time meter 12 fixed indicia 41 to mail piece 11. Field 37 contains a postal indicia 41 that has a two-dimensional bar code 42 that may be encrypted, unique identification number 15 in the form of a bar code, and a mailer reference number 40 and the number 45, i.e., the serial number of meter 12.

**[024]** Fig. 5A is a drawing of certificate of induction 30 indicating that a scanner of the post office has read unique identification code 15 on mail piece 11 indicating that mail piece 11 has entered the delivery process. Certificate of induction 30 contains eagle 51, the fee for the certificate of induction 52, an indication that it has been paid 53, the recipient's name and address 54, a seal 55 of the entering post office that indicates the date of receipt of mail piece 11, the time 56 a scanner controlled by the post office read unique identification code 15, the serial number 58 of meter 12 indicating that a secure message was received from meter 12, the sender's name 57, and the mailer's docket number 59, which will remind the mailer to place certificate of induction in the correct file. It would be obvious to one skilled in the art that the sender's address may also be included because the licensee's name and address of meter 12 is known to data center 21.

[025] Fig. 5B is a drawing of a certificate of non-induction 60 indicating that a scanner of the post office has not read unique identification code 15 on mail piece 11 indicating that mail piece 11 has not entered the delivery process. Certificate of non-induction 60 contains eagle 61, the fee for the certificate of induction 62, an indication 63 that the fee

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for the certificate of induction has been refunded to meter 12, the recipient's name and address 64, a seal 65 of the entering post office that indicates the date that meter 12 notified data center 21 that a certificate of induction is being requested for mail piece 11, an indication 66 that a scanner controlled by the post office has not read unique identification code 15 or that there is no USPS record of reading identification code 15, the serial number 68 of meter 12, the sender's name 67, and the mailer's docket number 69, i.e., F-800, which will remind the mailer that mail piece 11 was not received by the post office, to place certificate of non-induction in the correct file and to contact the recipient. Certificate of non-induction 60 will be prepared after a time interval determined by the post office data center 21 receives an indication that a certificate of induction was placed on mail piece 11 by meter 12. It would be obvious to one skilled in the art that the sender's name and address may also be included because the name and address of the licensee of meter 12 is known to data center 21.

**[026]** The above specification describes a new and improved method for providing proof of mailing of a mail piece. It is realized that the above description may indicate to those skilled in the art additional ways in which the principles of this invention may be used without departing from the spirit. Therefore, it is intended that this invention be limited only by the scope of the appended claims.